APPENDIX A

Data Transfer Request (DTR) File -- for use with X_ETL_DEFINEREC

```
/* General notes:
*  1. The DTR file is comprised of DTR commands that define the data transfer between
*        the GCOS and Unix machines in behalf of the RDBC utilities running on Unix.
*  2. A DTR command may be expressed on a single line or across multiple lines.
*        An individual token within a DTR command may not be split across
*        multiple lines. Multiple DTR commands on the same line is not supported.
*  3. Supported DTR commands: OPTION and RECORDFORMAT.
*  4. Required Order of DTR commands: OPTION (if present),
*        followed by RECORDFORMAT.
*  5. RECORDFORMAT field requirements: All fields of data record must be
*        explicitly defined.
*/


<OptionCmd>::=    OPTION <OptionStmt> [<OptionStmt>...] ;

<OptionStmt>::=   <ConvStmt> | <IndStmt> | <ByteflipStmt>

<ConvStmt>::=     -CONVERT {YES|NO}           /* default is YES */
<ByteflipStmt>::= -BYTEFLIP {YES|NO}          /* default is YES */
<IndStmt>::=      -INDICATORS {YES|NO} | <NumIndBits> /* default is NO */

<NumIndBits>::=   /* integer value indicating number of Indicator bits */


/* Miscellaneous notes:
*  1. "-INDICATORS YES" implies that the number of Indicator Bits is
*  the number of <FieldDesc> fields contained in the RECORDFORMAT command.
*/


/*--------------------------------------------------------------------*/

<RecFormatCmd>::=  RECORDFORMAT <FieldDesc> [,<FieldDesc>...] ;

<FieldDesc>::=    <fieldname> ( <datatype> )

<fieldname>::=    /* alpha-numeric string indicating name of record field */

<datatype>::=     BYTE (n) | BYTEINT | CHAR (n) | DATE | DECIMAL (x)
                  DECIMAL (x,y) | FLOAT | GRAPHIC (n) | INTEGER | LONG VARBYTE |
                  LONG VARCHAR | LONG VARGRAPHIC | SMALLINT | VARBYTE (n) |
                  VARCHAR (n) | VARGRAPHIC (n)
```

APPENDIX A

Data Transfer Request (DTR) File -- for use with X_ETL_DEFINEREC

/* Miscellanous notes:
* 1. Data types LONG VARBYTE and LONG VARCHAR imply a maximum
* length of 64000 1-byte elements (64000 bytes).
* 2. LONG VARGRAPHIC implies a maximum length of 32000 2-byte
* elements (64000 bytes).
* 3. All tokens comprising an individual <FieldDesc> must be contained on
* the same line.
*/

APPENDIX B
GLOSSARY

API — Application Programmatic Interface. The interface used by an application to request services from a product.

AIX — UNIX variant developed by IBM Corporation. It is the UNIX utilized in the preferred embodiment of this invention.

5 DBSP — DataBase Server Processor - UNIX based database system sold by Assignee that operates as a database backend for mainframe systems.

DBSS — DataBase Server System - A general purpose UNIX system that is the UNIX component of DBSP

ETL — Extract, Transform, and Load

10 Fast-ETL — Software that performs ETL and is the subject of this patent disclosure.

GCOS 8 — Mainframe operating system and hardware sold by assignee of this invention. This is the preferred embodiment of the mainframe system disclosed herein.

GFIP — GCOS File Interface Procedure. The run-time routines developed for Fast-ETL that are bound with the GCOS 8 user application.

SID — Server Interface Domain

Teradata — Backend database system commercially made by NCR corporation and sold by assignee of this invention.

UFAP — GCOS File Read/Write Application. A UNIX application written and provided by assignee as part of the Fast-ETL product. This program provides two services. One service is to write a data stream from UFIP to a UNIX file. The other service is to read a UNIX file and send its content as a data stream to UFIP.

RDBC — Relational DataBase Computer - Name given to NCR Teradata implementation attached to Assignee's GCOS mainframe through an I/O channel.

UFIP — GCOS File Interface Procedure. The run-time routines developed for Fast-ETL that are bound with a UNIX user application or with the program provided by assignee, UFAP.

30 USL — UNIX Sockets Listener

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APPENDIX C
Publications

The following published manuals are commercially available from Assignee and may be useful in understanding commercially available prior art products utilized in implementing this invention.

Number	Manual Title / Description
9932-03	File Transfer (UFTF) Installation Guide
EC25-09	INTEREL Utilities Reference Manual
JZ27-02	Teradata DBS MultiLoad Reference Manual
JZ30-02	Teradata DBS FastExport Reference Manual
JZ43-01	Teradata DBS FastLoad Reference Manual
JZ44-01	Teradata DBS Tpump Reference Manual
LC02-05	Sockets Internetworking Programmer's Guide
RG44-08	Sockets Administrator's Guide
RJ05-02	File Transfer Protocol 8 Administrator's and User's Guide
RJ28-03	DBSP Oracle Support Programmer's Guide
RJ29-03	DBSP Oracle Support Administrator's Guide
RJ63-00	FlowBus Product Overview
SH39-08	Sockets SR8 SK4.0 SRB
SH95-02	Multiload Software Release SRB
SJ38-03	GEC for FlowBus GCOS8 Cobol API SRB
SJ43-02	FastExport VRC1.0FX SRB
SJ74-01	FastLoad Software Release VRC2.0FL SRB
SJ75-01	TPump Software Release VRC2.0TP SRB
SJ76-03	DBSP Oracle Support Release 1.1 SRB
SJ76-03	DBSP Oracle Support SRB
SJ91-01	MultiLoad VRC2.0ML SRB
SJ92-00	FastExport VRC2.0FX SRB

These manuals (or their successors) are commercially available from Assignee at:

Bull HN Information Systems Inc.
Publication Order Entry
MA30/865A
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Billerica, MA 01821 (USA)
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Application papers not suitable for publication

SN _09896699_   Mail Date _6-29-1_

- ☐ Non-English Specification
- ☐ Specification contains drawing(s) on page(s)_____ or table(s)___⟋____
- ☐ Landscape orientation of text   ☐ Specification   ☐ Claims   ☐ Abstract
- ☐ Handwritten   ☐ Specification   ☐ Claims   ☐ Abstract
- ☐ More than one column   ☐ Specification   ☐ Claims   ☐ Abstract
- ☐ Improper line spacing   ☐ Specification   ☐ Claims   ☐ Abstract
- ☐ Claims not on separate page(s)
- ☐ Abstract not on separate page(s)
- ☐ Improper paper size -- Must be either A4 (21 cm x 29.7 cm) or 8-1/2"x 11"
  - ☐ Specification page(s)_____   ☐ Abstract
  - ☐ Drawing page(s)_____   ☐ Claim(s)
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  - ☐ Specification page(s)_____   ☐ Abstract
  - ☐ Drawing page(s)_____   ☐ Claim(s)
- ☐ Not reproducible   Section

  Reason   ☐ Specification page(s)_____
  - ☐ Paper too thin   ☐ Drawing page(s)_____
  - ☐ Glossy pages   ☐ Abstract
  - ☐ Non-white background   ☐ Claim(s)
- ☐ Drawing objection(s)
  - ☐ Missing lead lines, drawing(s)_____
  - ☐ Line quality is too light, drawing(s)_____
  - ☐ More than 1 drawing and not numbered correctly
  - ☐ Non-English text, drawing(s)_____
  - ☐ Excessive text, drawing(s)_____
  - ☐ Photographs capable of illustration, drawing(s)_____